

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

November 2011

Station: Westford
 Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

Date	Temperature					Humidity	Deg. Days		Precip Ty 1 fog 2 hvy fog 3 thunder 4 ice plt 5 hail 6 glaze 7 duststm 8 smk, hz 9 blw snw	Snow Cvr	Precip		Pressure Adj. to Sea Level			Wind						Solar Radiation			
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating Base 65°F			Cooling Base 65°F	Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg	Res	Res	Peak			Minute		
																				Speed	Speed		Dir	Speed	Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	54.7	35.2	45.0	43.4	32	65	20	0	.....	0	0.00	0.0	30.32	30.26	30.287	1.7	1.6	214	13	S	7	207	102	
2	58.4	34.3	46.4	46.2	34	64	19	0	.....	0	0.00	0.0	30.31	30.10	30.227	5.0	5.0	207	20	SSW	11	213	103	
3	54.4	40.1	47.3	47.4	37	69	18	0	.....	0	0.06	0.0	30.10	29.85	29.951	4.4	3.6	211	20	SSW	12	210	57	
4	40.1	29.9	35.0	34.4	30	85	30	0	.....	0	0.04	T	30.32	29.95	30.116	1.1	1.1	347	15	NNW	8	314	44	
5	46.1	23.9	35.0	32.9	25	75	30	0	.....	0	0.05	0.0	30.48	30.32	30.412	0.3	0.1	298	8	WNW	5	303	101	
6	53.5	32.4	43.0	42.3	23	48	22	0	.....	0	0.00	0.0	30.40	30.21	30.315	6.0	6.0	212	22	SW	13	213	101	
7	55.8	38.2	47.0	46.6	33	59	18	0	.....	0	0.00	0.0	30.23	30.09	30.160	6.1	6.1	212	21	SW	12	220	58	
8	63.1	43.8	53.4	52.6	42	69	11	0	.....	0	0.00	0.0	30.22	30.13	30.173	1.2	1.1	242	11	WSW	8	233	82	
9	66.3	49.2	57.8*	57.1	45	66	7	0	.....	0	0.00	0.0	30.14	29.83	30.000	4.4	4.4	205	27	S	15	219	82	
10	57.7	37.4	47.6	49.2	43	80	17	0	.....	0	0.23	0.0	29.86	29.64	29.768	4.5	3.3	217	35	SW	18	205	13	
11	43.2	33.2	38.2	37.2	30	76	27	0	.....	0	0.00	T	29.78	29.50	29.589	4.8	4.7	306	27	WNW	15	314	55	
12	46.1	32.1	39.1	39.2	28	64	26	0	.....	0	0.00	0.0	29.97	29.78	29.868	5.1	4.8	216	24	SW	15	209	53	
13	59.3	40.2	49.8	50.2	33	52	15	0	.....	0	0.00	0.0	29.99	29.72	29.869	6.9	6.9	204	31	S	15	204	45	
14	62.3	49.1	55.7	54.9	42	62	9	0	.....	0	0.12	0.0	29.72	29.49	29.633	8.1	8.1	205	28	SSW	16	213	54	
15	54.9	38.8	46.9	47.9	42	80	18	0	.....	0	0.16	0.0	29.88	29.48	29.711	2.7	2.1	234	25	SSW	13	202	39	
16	56.1	41.1	48.6	48.8	42	79	16	0	.....	0	T	0.0	29.87	29.66	29.762	4.2	3.8	219	19	SSW	12	207	47	
17	44.7	30.5	37.6	37.1	27	66	27	0	.....	0	T	T	29.85	29.73	29.787	3.0	2.8	288	18	NNW	11	291	47	
18	39.2	27.5	33.4	33.0	22	64	31	0	.....	0	0.00	0.0	30.24	29.85	30.123	4.6	4.1	253	19	SSW	12	207	52	
19	48.5	34.7	41.6	41.6	21	45	23	0	.....	0	0.00	0.0	30.19	29.99	30.109	8.8	8.8	206	30	S	15	217	73	
20	48.4	33.1	40.8	43.5	33	68	24	0	.....	0	0.11	0.0	30.18	29.82	29.952	6.4	5.1	214	29	WSW	17	203	8	
21	34.4	17.9	26.2	27.1	19	71	39	0	.....	0	0.00	0.0	30.39	30.18	30.325	0.6	0.5	7	10	N	6	320	79	
22	34.4	16.3*	25.4*	25.0	16	69	40	0	.....	0	0.00	0.0	30.45	30.14	30.347	0.2	0.1	63	9	SW	5	204	69	
23	33.8	26.0	29.9	30.6	28	91	35	0	.....	6	0.76	5.6	30.14	29.79	29.922	0.4	0.2	1	11	S	5	215	3	
24	34.4	25.7	30.1	30.0	28	91	35	0	.....	5	T	0.0	30.10	30.03	30.066	1.4	1.4	209	11	SSW	7	215	4	
25	47.5	33.0	40.3	40.8	35	80	24	0	.....	2	0.00	0.0	30.04	29.90	29.961	5.2	5.2	213	21	SSW	13	210	68	
26	51.4	38.8	45.1	46.4	37	70	20	0	.....	0	0.00	0.0	30.14	29.97	30.078	1.3	1.2	245	16	WSW	9	251	33	
27	57.2	38.4	47.8	49.3	38	65	17	0	.....	0	0.00	0.0	30.10	29.88	29.991	3.6	3.5	200	28	S	16	200	43	
28	54.9	41.1	48.0	49.5	44	80	17	0	.....	0	0.04	0.0	30.09	29.85	29.979	4.2	3.2	220	27	S	15	202	17	
29	63.3	42.6	52.9	54.8	49	80	12	0	.....	0	0.07	0.0	30.04	29.54	29.863	3.7	3.6	195	22	S	12	219	31	
30	58.5	32.5	45.5	46.5	40	78	19	0	.....	0	0.28	0.0	29.86	29.34	29.520	6.4	5.5	225	34	SW	18	202	38	
Sum	Sum	-----	-----	---	----		Ttl	Ttl					For the month:										---		
1523	1037						666	0					1.92	5.6	30.48	29.34	29.995	3.9	3.2	219	35	SW	18	202	
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	----	---	Date	Date	Avg			
50.8	34.6	42.7	42.9	33	70.3	----	----		≥.01 inch	11	51.62	5.8	5	30	-----	----	----	---			10	30	53		
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	1	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			1289	405	Thunder	0	Precipitation			Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.35	29-30	5.6	23														
0	0	10	0	----	----	Clear	3	Partly Cloudy			9	Cloudy			18										

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 24 hours.
 Data in columns 9, 10, 12 are entered manually by the station observer.
 Columns 17-18: Resultant wind is calculated by the vector sum of continuous wind observations.
 Column 23: Solar Radiation is measured in Watts/m^2 and is continuously averaged for 24 hours.
 Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.

OBSERVATIONS AT 3-HOUR INTERVALS

November 2011: Westford

Hour	NOV 01									NOV 02									NOV 03								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
01	0	30.28	0.00	41	27	58	19	1	6	0	30.28	0.00	37	30	77	20	0	2	0	30.07	0.00	48	35	61	20	6	13
04	0	30.28	0.00	39	29	67	20	3	7	0	30.28	0.00	36	31	81	20	4	6	0	30.02	0.00	47	35	64	19	5	11
07	0	30.30	0.00	37	29	74	20	2	7	0	30.29	0.00	39	32	77	21	3	9	0	29.98	0.00	46	35	66	20	6	13
10	260	30.31	0.00	45	34	66	20	5	12	269	30.30	0.00	46	35	65	20	6	12	211	29.96	0.00	50	37	61	21	8	16
13	425	30.28	0.00	52	34	51	28	2	8	429	30.23	0.00	55	37	50	20	10	15	223	29.88	0.00	54	39	57	20	2	9
16	176	30.26	0.00	54	36	50	23	3	7	211	30.18	0.00	57	37	48	19	7	12	32	29.86	0.00	52	40	62	29	0	1
19	0	30.28	0.00	41	33	73	20	0	2	0	30.16	0.00	50	35	56	20	8	15	0	29.92	0.00	45	41	85	32	0	4
22	0	30.29	0.00	39	32	76	20	2	5	0	30.12	0.00	49	36	60	20	7	17	0	29.95	0.00	40	38	90	01	0	5
NOV 04									NOV 05									NOV 06									
01	0	29.96	0.00	39	36	91	02	2	9	0	30.32	0.00	31	25	80	01	0	0	0	30.40	0.00	33	23	67	21	2	6
04	0	29.98	0.00	33	31	90	03	0	4	0	30.37	0.00	28	24	85	01	0	3	0	30.38	0.00	35	23	61	21	5	11
07	0	30.03	0.00	34	31	88	00	3	9	0	30.41	0.00	26	23	88	01	0	1	12	30.40	0.00	34	22	62	21	4	9
10	169	30.07	0.00	35	31	83	00	0	6	287	30.46	0.00	35	31	84	01	0	1	369	30.36	0.00	45	25	44	22	8	21
13	69	30.11	0.00	38	31	76	34	6	14	431	30.45	0.00	42	28	58	31	1	5	392	30.29	0.00	52	24	34	22	9	15
16	223	30.16	0.00	34	30	86	03	0	6	171	30.43	0.00	46	28	49	27	0	4	32	30.26	0.00	49	25	38	20	5	12
19	0	30.26	0.00	33	28	84	01	0	0	0	30.42	0.00	30	24	78	11	0	0	0	30.25	0.00	45	22	40	21	6	15
22	0	30.30	0.00	31	25	80	02	1	4	0	30.42	0.00	30	24	79	15	0	5	0	30.23	0.00	44	24	45	21	6	13
NOV 07									NOV 08									NOV 09									
01	0	30.22	0.00	43	26	50	21	4	10	0	30.16	0.00	48	41	77	25	1	8	0	30.12	0.00	51	47	85	16	0	4
04	0	30.21	0.00	40	27	58	20	8	13	0	30.18	0.00	47	42	83	21	0	2	0	30.09	0.00	52	47	81	20	2	7
07	14	30.21	0.00	40	28	62	20	8	16	12	30.19	0.00	45	41	88	20	1	5	12	30.09	0.00	51	46	83	20	2	6
10	197	30.16	0.00	50	32	51	21	8	17	341	30.20	0.00	57	38	49	28	4	8	336	30.07	0.00	61	50	67	22	7	15
13	385	30.13	0.00	53	36	51	20	4	12	190	30.17	0.00	60	38	44	22	1	6	288	29.99	0.00	66	49	54	19	6	14
16	25	30.10	0.00	53	37	53	21	9	14	19	30.16	0.00	57	44	61	21	0	1	14	29.93	0.00	62	42	48	21	5	13
19	0	30.12	0.00	49	37	63	21	8	12	0	30.17	0.00	54	45	71	16	0	1	0	29.90	0.00	58	44	60	18	4	10
22	0	30.14	0.00	45	37	75	20	3	6	0	30.15	0.00	52	45	76	16	0	0	0	29.84	0.00	57	42	58	19	4	16
NOV 10									NOV 11									NOV 12									
01	0	29.84	0.00	54	42	62	20	16	29	0	29.62	0.00	37	36	93	04	0	0	0	29.81	0.00	34	23	63	26	7	11
04	0	29.83	0.00	55	46	72	21	12	24	0	29.55	0.00	37	35	93	04	0	3	0	29.84	0.00	34	23	64	25	3	7
07	19	29.83	0.00	55	47	73	19	7	17	14	29.52	0.00	36	33	90	32	0	3	14	29.87	0.00	33	25	70	21	6	12
10	46	29.79	0.00	58	47	68	19	2	10	343	29.52	0.00	42	35	77	30	4	12	193	29.84	0.00	40	29	65	20	10	16
13	46	29.74	0.00	53	48	83	30	0	7	123	29.51	0.00	41	30	65	33	5	19	445	29.81	0.00	44	30	58	20	4	20
16	0	29.74	0.00	43	40	91	01	0	7	5	29.57	0.00	38	27	66	29	10	18	5	29.86	0.00	44	30	57	22	5	14
19	0	29.70	0.07	43	41	94	06	0	3	0	29.67	0.00	35	24	64	29	11	20	0	29.93	0.00	43	31	63	20	4	10
22	0	29.70	0.06	38	36	92	31	5	9	0	29.74	0.00	34	23	65	30	6	12	0	29.96	0.00	42	31	66	19	1	6
NOV 13									NOV 14									NOV 15									
01	0	29.96	0.00	41	31	66	19	6	9	0	29.71	0.00	52	35	52	20	9	21	0	29.48	0.00	54	50	87	19	9	19
04	0	29.98	0.00	43	31	63	19	4	11	0	29.67	0.00	49	39	68	19	7	19	0	29.53	0.00	55	50	85	21	5	11
07	7	29.99	0.00	45	32	61	19	6	12	11	29.65	0.00	53	36	54	20	12	21	0	29.67	0.00	48	46	92	33	0	6
10	309	29.95	0.00	53	35	51	21	3	12	155	29.65	0.00	57	40	53	19	10	19	134	29.73	0.00	50	44	80	23	1	7
13	37	29.82	0.00	57	33	39	20	8	14	153	29.64	0.00	59	42	54	21	13	24	137	29.75	0.00	51	38	61	25	6	11
16	12	29.77	0.00	56	33	42	21	12	23	12	29.63	0.00	57	44	61	20	6	16	25	29.77	0.00	49	39	68	19	0	0
19	0	29.78	0.00	53	34	48	21	8	17	0	29.60	0.00	56	46	68	20	9	18	0	29.83	0.00	41	36	83	19	1	5
22	0	29.76	0.00	52	34	51	20	7	21	0	29.56	0.04	52	49	90	19	6	16	0	29.86	0.00	40	35	82	19	0	4
NOV 16									NOV 17									NOV 18									
01	0	29.86	0.00	43	36	77	19	3	7	0	29.75	0.00	41	27	57	30	8	14	0	29.86	0.00	30	23	74	25	4	11
04	0	29.84	0.00	41	37	83	19	0	0	0	29.79	0.00	38	25	60	29	4	7	0	29.96	0.00	31	23	71	25	5	12
07	7	29.83	0.00	46	41	82	20	4	9	7	29.80	0.00	36	27	70	29	0	4	5	30.08	0.00	28	20	72	23	3	6
10	171	29.81	0.00	50	45	83	20	6	13	139	29.81	0.00	39	28	63	30	4	9	62	30.17	0.00	33	23	66	26	2	7
13	153	29.73	0.00	55	46	73	20	8	15	192	29.76	0.00	41	28	61	28	0	5	199	30.19	0.00	37	23	57	25	6	14
16	11	29.69	0.00	52	45	77	20	4	14	14	29.74	0.00	38	27	63	29	0	3	9	30.20	0.00	36	20	51	24	2	8
19	0	29.68	0.00	51	46	84	22	6	12	0	29.78	0.00	35	26	71	29	6	11	0	30.23	0.00	34	22	62	24	3	13
22	0	29.69	0.00	50	43	78	26	7	14	0	29.82	0.00	33	25	72	26	5	11	0	30.22	0.00	32	21	63	21	5	11

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.04	0.05	0.06	0.07	0.09	0.12	0.14	0.16	0.16	0.18	0.21	0.21
Ended: Date	15	20	20	20	15	15	15	15	15	30	30	30
Ended: Time	0508	1307	1307	1310	0531	0538	0535	0544	0544	0113	0141	0141

The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

OBSERVATIONS AT 3-HOUR INTERVALS

November 2011: Westford

Hour	NOV 19									NOV 20									NOV 21								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
01	0	30.17	0.00	36	22	57	20	12	20	0	29.96	0.00	44	24	45	20	9	20	0	30.21	0.00	32	25	76	35	0	4
04	0	30.16	0.00	36	20	52	21	10	25	0	29.88	0.00	44	26	49	20	11	22	0	30.28	0.00	29	22	76	35	1	5
07	0	30.17	0.00	36	20	51	20	9	21	7	29.83	0.00	45	29	54	20	11	28	5	30.34	0.00	25	18	75	04	0	3
10	264	30.17	0.00	40	20	44	20	8	19	58	29.84	0.00	47	34	59	22	10	22	315	30.39	0.00	30	19	63	34	0	3
13	406	30.11	0.00	47	22	37	22	7	17	12	29.85	0.09	47	42	81	21	4	8	334	30.34	0.00	34	19	54	02	1	7
16	19	30.06	0.00	46	21	37	19	6	16	0	29.98	0.00	45	40	84	33	3	9	14	30.33	0.00	30	18	62	04	0	4
19	0	30.06	0.00	46	24	41	19	10	21	0	30.08	0.00	42	36	80	34	4	11	0	30.36	0.00	22	15	76	04	0	0
22	0	30.03	0.00	45	23	42	20	9	18	0	30.14	0.00	36	31	81	36	0	11	0	30.34	0.00	19	14	82	04	0	0
NOV 22									NOV 23									NOV 24									
01	0	30.34	0.00	17	14	85	04	0	0	0	30.11	0.00	30	26	86	17	0	4	0	30.05	0.00	26	24	91	03	0	4
04	0	30.37	0.00	17	13	86	04	0	0	0	29.94	0.00	33	30	90	08	0	11	0	30.03	0.00	26	24	92	10	0	0
07	5	30.41	0.00	17	14	87	04	0	0	0	29.85	0.00	32	30	92	16	0	0	0	30.07	0.00	27	25	92	11	0	0
10	309	30.45	0.00	29	18	63	04	1	3	5	29.82	0.00	33	31	93	03	0	0	14	30.09	0.00	29	27	90	21	4	9
13	250	30.37	0.00	34	13	42	02	0	4	12	29.80	0.00	33	31	92	02	2	11	16	30.06	0.00	31	29	91	19	4	9
16	7	30.35	0.00	30	16	56	02	0	0	0	29.88	0.00	31	29	92	33	1	5	0	30.07	0.00	32	30	91	21	1	5
19	0	30.30	0.00	27	17	67	02	0	0	0	29.97	0.00	28	27	93	32	0	8	0	30.08	0.00	33	31	91	21	2	6
22	0	30.21	0.00	29	18	62	02	0	2	0	30.02	0.00	26	24	92	32	0	0	0	30.06	0.00	34	32	91	20	0	7
NOV 25									NOV 26									NOV 27									
01	0	30.01	0.00	34	32	92	20	1	5	0	29.99	0.00	47	35	61	23	4	10	0	30.08	0.00	40	35	82	20	0	0
04	0	29.99	0.00	36	33	92	21	6	11	0	30.01	0.00	48	36	62	26	6	12	0	30.05	0.00	47	36	66	19	3	11
07	0	30.00	0.00	37	34	89	21	8	14	0	30.06	0.00	47	36	66	27	1	5	0	30.05	0.00	39	33	77	19	0	0
10	165	29.99	0.00	41	35	81	21	7	17	95	30.11	0.00	48	37	66	23	0	0	188	30.05	0.00	47	38	71	21	1	7
13	345	29.91	0.00	47	37	69	21	10	18	121	30.10	0.00	50	39	65	30	0	1	128	29.98	0.00	55	39	55	19	4	14
16	19	29.91	0.00	47	37	69	21	7	13	9	30.10	0.00	46	38	73	09	0	3	9	29.93	0.00	51	36	56	19	1	9
19	0	29.92	0.00	44	35	71	20	4	12	0	30.12	0.00	43	37	79	09	0	0	0	29.92	0.00	51	39	62	20	2	9
22	0	29.95	0.00	42	34	75	22	4	7	0	30.11	0.00	40	35	81	11	0	0	0	29.90	0.00	55	42	62	20	7	24
NOV 28									NOV 29									NOV 30									
01	0	29.88	0.00	55	45	71	20	11	26	0	30.01	0.00	43	39	88	04	0	0	0	29.48	0.00	58	54	87	21	0	8
04	0	29.88	0.00	55	47	74	20	9	17	0	29.99	0.00	44	41	91	20	1	6	0	29.37	0.06	57	53	87	20	10	22
07	0	29.91	0.00	55	47	76	21	7	16	0	29.96	0.00	51	47	86	20	3	7	0	29.40	0.00	51	42	71	20	12	30
10	11	29.99	0.16	52	48	85	23	4	12	111	29.95	0.00	55	50	83	20	2	4	246	29.44	0.00	49	39	67	21	15	24
13	39	29.99	0.00	51	45	79	29	3	8	132	29.87	0.00	62	53	71	20	8	16	98	29.46	0.06	45	40	84	21	5	11
16	12	30.05	0.00	46	40	80	04	0	5	0	29.82	0.00	62	52	72	18	5	15	0	29.54	0.00	43	35	74	22	6	11
19	0	30.08	0.00	42	39	88	03	1	5	0	29.74	0.00	59	52	76	16	4	17	0	29.64	0.00	40	34	78	24	1	9
22	0	30.07	0.00	42	38	87	04	0	3	0	29.63	0.00	60	53	79	19	5	12	0	29.79	0.00	33	27	78	30	8	19

WEATHER NOTES

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Wind Direction: Directions are those from which the wind is blowing, indicated in tens of degrees from true north: i.e., 09 for East, 18 for South, 27 for West, and 00 or 36 for North.
 Wind Speed: The observed one-minute average speed in miles-per-hour.
 Wind Gust: The maximum instantaneous wind speed for the 10-minute period preceding the observation.
 Rainfall Rate: The instantaneous rainfall rate at the time of observation, calculated by timing consecutive 0.01" pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

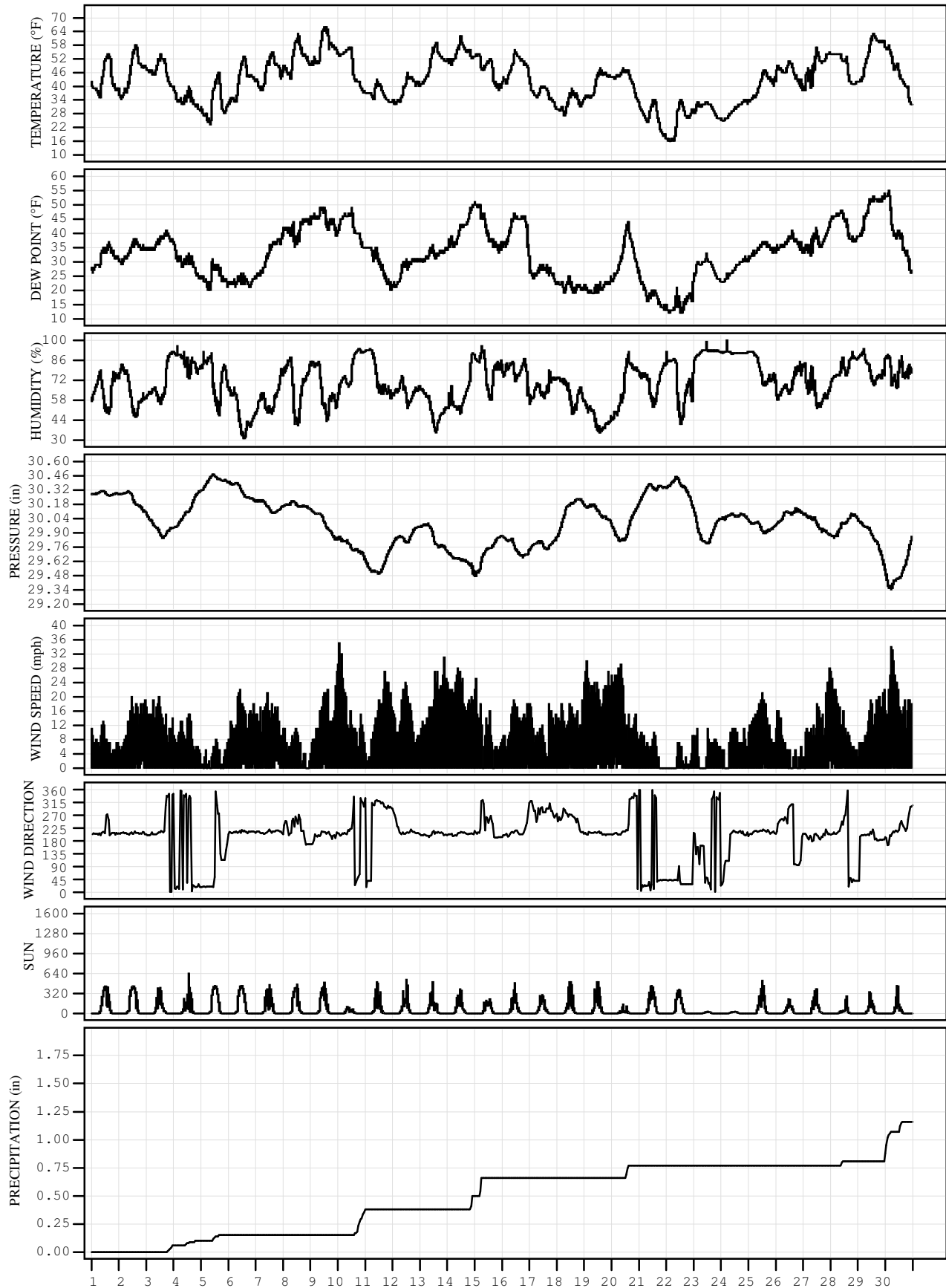
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	0	30.000	41	32	73	3.8	22	3.2
04	0	29.991	40	33	75	4.1	21	3.7
07	5	30.006	40	32	76	3.8	21	3.6
10	192	30.015	45	34	68	4.7	22	4.2
13	207	29.978	48	35	62	4.7	22	3.6
16	36	29.978	46	34	64	3.2	22	2.7
19	0	29.997	42	33	72	3.4	22	2.5
22	0	30.000	41	32	74	3.3	23	2.5

**HOURLY PRECIPITATION (Water Equivalent)
November 2011: Westford**

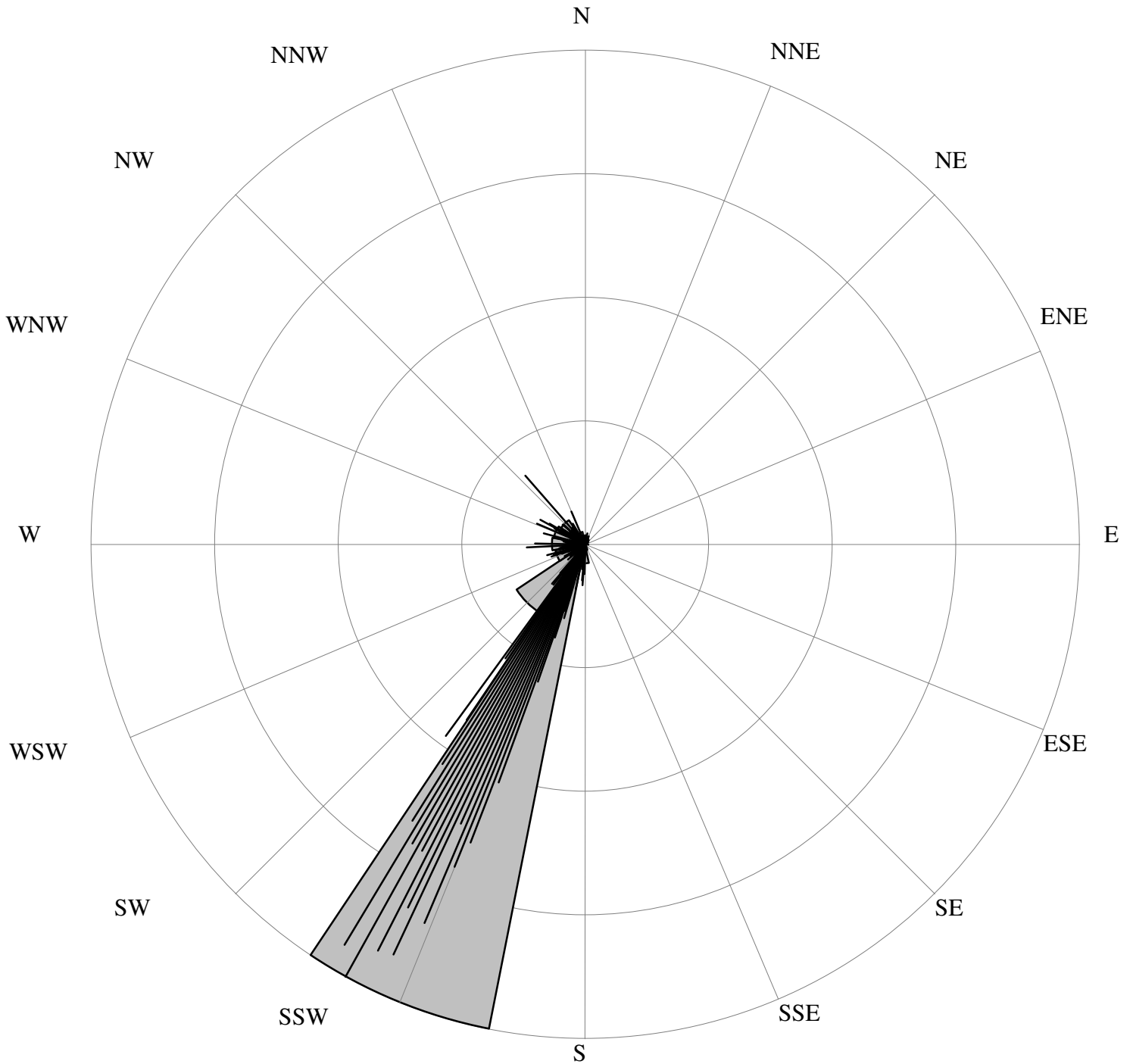
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01																									01	
02																										02
03																										03
04											0.01	0.01		0.01						0.01	0.01	0.01	0.01	0.02		04
05											0.02	0.01	0.01			0.01										05
06																										06
07																										07
08																										08
09																										09
10																0.02		0.01	0.05	0.04	0.02	0.01	0.04	0.01	0.03	10
11																										11
12																										12
13																										13
14																							0.03	0.09		14
15					0.04	0.12																				15
16																										16
17																										17
18																										18
19																										19
20													0.03	0.06	0.02											20
21																										21
22																										22
23																										23
24																										24
25																										25
26																										26
27																										27
28											0.03	0.01														28
29																										29
30	0.07	0.07	0.02	0.02	0.01																					30
Sum	0.07	0.07	0.02	0.02	0.05	0.12	0.00	0.00	0.00	0.03	0.04	0.02	0.09	0.10	0.05	0.01	0.01	0.05	0.06	0.03	0.05	0.14	0.03	0.10	Sum	

During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA
November 2011: Westford



Wind Rose: November 2011
Westford



Maximum direction of wind: 161.3 miles from 209°
Maximum sector of wind: 1848.8 miles from SSW
2793.3 total miles of wind